
North America's Leader in Hazardous Material Information Management
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MSDS PRODUCT INFORMATION

Date: 10/07/2005
To: MSDS Requester
From: 3E Company
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Citgo Petroleum Corporation
Product Name: 2 Cycle Special M (DISCONTINUED)



CITGO Petroleum Corporation
P. O. Box 3758
Tulsa, OK 74102

Material Safety Data Sheet

Trade Name: **2 Cycle Special M** Date: **March 1, 1996**
CAS No.: **Mixture (Refer to Section 1)** Commodity Code: **64-010**
Synonyms: **Two Cycle Oil** Technical Contact: **(918) 495-5933**
Medical Emergency: **(918) 495-4700**
CITGO Index No.: **2059** CHEMTREC Emergency: **(800) 424-9300**

MATERIAL HAZARD EVALUATION

Health Precautions: Protect exposed skin from repeated or prolonged exposure.

Safety Precautions: CAUTION: COMBUSTIBLE LIQUID. Keep away from heat and flame.

HMIS Rating¹ Health: 0 Flammability: 2 Reactivity: 0

1.0 GENERIC COMPOSITION / COMPONENTS

Components	CAS #	%	Hazard Data
Refined Petroleum Oil(s)	Refer to Section 11	> 55	Oral LD50 (rat): > 5g/kg Dermal and Eyes: Mild irritant Inhalation LC50/4H (rat): > 5,000mg/M ³
Mineral Spirits	8052-41-3 64742-47-8 95-63-6	< 25	Oral LD50 (human): > 5g/kg Oral (human): Aspiration hazard. Dermal and Eyes: Irritant Inhalation: Irritant.
Ashless Dispersant	Mixture	< 25	Oral LD50 (rat): > 5g/kg Dermal and Eyes: Mild irritant.
Viscosity Modifier	Mixture	0 - < 5	Eyes: Mild irritant.
Pour Point Depressant	Mixture	0 - < 1	Dermal and Eyes: Mild irritant Oral LD50 (rat): > 5g/kg
Coupling Agent	Mixture	0 - < 1	Dermal and Eyes: Mild irritant.
Corrosion Inhibitor	Mixture	0 - < 1	Dermal & Eyes: Irritant.
Dye	Mixture	< 0.1	Oral LD50 (rat): > 10 g/kg

Hazard Rating: least-1, slight-1, moderate-2, high-3, extreme-4.

CITGO assigned these values based upon an evaluation conducted pursuant to NPCA guidelines. Use of an asterisk indicated that the material may present chronic health effects.

NA-Not Applicable

ND-No Data

NE-Not Established

2-Cycle Special M (64-010, March 1, 1996 CTN: 2059)

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2.0 PHYSICAL DATA

PHYSICAL HAZARD CLASSIFICATION (Per 29 CFR Part 1910.1200)

Combustible	Yes	Flammable	No	Pyrophoric	No
Compressed Gas	No	Organic Peroxide	No	Reactivity	No
Explosive	No	Oxidizer	No	Stable	Yes

Boiling Point, 760 mmHg, °C (°F):	98 - 218 (208 - 425)
Specific Gravity (60/60 °F) (H ₂ O = 1):	0.86 - 0.88
Vapor Density (Air = 1):	> 1
% Volatiles by Volume:	< 20
Melting Point, °C (°F):	NA
Vapor Pressure, mmHg (25° C):	0.4 to 80
Solubility in Water:	Negligible
Evaporation Rate (Butyl Acetate = 1):	<1
pH of Undiluted Product:	NA
Appearance and Odor	Blue to blue-green liquid, mild petroleum odor.

3.0 FIRE AND EXPLOSION DATA

Flash Point, COC, °C (°F)	49 - 93 (120 - 200)
Flash Point, CC, °C (°F)	ND
Fire Point, COC, °C (°F)	ND
NFPA Rating ²	Health: 0 Flammability: 2 Reactivity: 0
Flammable Limits (% by volume in air)	Lower: ND Upper: ND

Extinguishing Media:	Use with dry chemical, carbon dioxide or foam. Water may be ineffective as a fire fighting medium, but may be useful to cool fire exposed containers.
Fire Fighting Procedures:	Do not enter any enclosed or confined fire space without proper protective equipment. Wear full fire fighting turn out gear and self contained breathing apparatus in a positive pressure mode.
Fire Fighting Phases:	Use water to keep fire-exposed containers cool. Direct hose streams from a protected location. If a leak or spill has not ignited, then use water spray to protect persons attempting to stop a leak. Water spray may be used to flush spills away from fire or flame.
Unusual Fire Data:	At elevated temperatures, liquid can evaporate and form vapors which can ignite and burn. When heated to decomposition, product may emit irritating and acrid fumes. Water may cause the material to froth and splatter.

²Hazard Rating: least-0; slight-1; moderate-2; high-3; extreme-4.

CITGO assigned these values based upon an evaluation conducted pursuant to NFPA guidelines.

4.0 REACTIVITY DATA

Stability:	Stable.
Conditions Contributing to Instability:	None.
Incompatibility:	Strong oxidants.
Hazardous Decomposition Products: (thermal, unless otherwise specified)	CO ₂ , (CO with incomplete combustion),
Conditions Contributing to Hazardous Polymerization:	Hazardous polymerization is not expected to occur.

5.0 SPILL, LEAK AND DISPOSAL PROCEDURES

Procedure if Material is Spilled:

- Remove all ignition sources.
- Isolate the area of the spill and restrict access to persons wearing protective clothing.
- Ventilate area of release, as necessary, to disperse vapors and mists.
- Small Spills: Absorb released material with non-combustible absorbent. Place into containers for later disposal. (See Waste Disposal section below.)
- Large Spills: Evacuate area in the event of significant spills. Evaluate exposure potential. Potential exposure may require the use of respiratory protection. Use protective clothing. Contain spill in temporary dikes to avoid product migration and to assist in recovery. Do not allow material to escape into sewers, ground water, drainage ditches or surface waters.
- Administer appropriate first aid.
- Report releases as required to the appropriate federal, state and local authorities.

Waste Disposal:

- It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
- Determine compliance status with all applicable requirements prior to disposal.
- Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Refer to Section 7.0 - Special Protection Information.
- Keep unnecessary persons from hazard area.
- Drain and purge equipment, as necessary, to remove material residues.
- Use impervious gloves constructed of nitrile rubber and protective work clothing if direct contact is anticipated.
- Eliminate heat and ignition sources.
- Wash exposed skin thoroughly with soap and water.
- Remove contaminated clothing. Launder before reuse.

6.0 HEALTH HAZARD DATA

Health Hazard Classification (Per 29 CFR Part 1910.1200)

Carcinogen	No	Corrosive	No
Animal Carcinogen	No	Irritant	No
Suspect Carcinogen	No	Sensitizer	No
Mutagen	No	Teratogen	No
Highly Toxic	No	Target Organ	No
Toxic	No		

Carcinogen or Potential Carcinogen:

Product/Component	CAS No.	Conc. (%)	NTP	IARC	OSHA	Other
2 Cycle Special M	Mixture	100	No	No	No	No

Toxicity Summary: Generally of a low order of toxicity. Lethal oral dose of this material for a 150 lb. human adult is about 10 to 250 ml.

Major Route of Entry: Inhalation of incidental mists or vapors.

Acute Exposure Symptoms:

- Inhalation:** In enclosed spaces or when hot, vapors or mists may reach concentrations sufficient to cause drowsiness, dizziness, headache, nausea, or lung irritation. Elevated mist concentrations may cause chemical pneumonitis.
- Dermal Contact:** Mild temporary irritant.
- Eye Contact:** Mild temporary irritant.
- Ingestion:** The Saybolt viscosity of this material represented by the MSDS ranges between 100 to 280 SUS at 100° F. Accordingly, there is a moderate risk of aspiration into the lungs. Upon ingestion of large quantities, slight gastrointestinal discomfort, diarrhea, and headache may occur. Small doses may produce irritation and diarrhea.
- Injection:** Subcutaneous or intramuscular injection may cause irritation, erythema, edema.

Chronic Exposure Symptoms:

Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

Other Special Effects:

None expected.

Medical Conditions Aggravated by Exposure

None.

6.0 HEALTH HAZARD DATA (continued)

First Aid and Emergency Procedures for Acute Effect

- Inhalation:** Move victim to fresh air. Provide respiratory support if necessary. Seek medical aid.
- Dermal:** Wash exposed skin with soap and water. Remove contaminated clothing. Launder before use.
- Eyes:** Flush eyes with large volumes of water for at least 15 minutes. Seek medical aid.
- Ingestion:** Do not induce vomiting. Seek prompt medical aid.
- Injection:** Subcutaneous injection is a medical emergency. Seek medical aid immediately.

Notes to Physician

This product contains mineral spirits. The Saybolt viscosity of this product ranges between 100 to 280 SUS at 100° F. Upon ingestion, there is a moderate risk of aspiration into the lungs. Removal by gastric lavage is recommended. Aspirated material may cause chemical pneumonitis or lipid pneumonia. Subcutaneous or intramuscular injection requires prompt surgical debridement.

7.0 SPECIAL PROTECTION INFORMATION

Ventilation Requirements:

Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below applicable workplace exposure levels as evaluated by designated and properly trained personnel.

Applicable Workplace Exposure Levels:

Chemical Component	ACGIH TLV TWA ppm (mg/M ³)	ACGIH TLV STEL/Ceiling (C) ppm (mg/M ³)	ACGIH TLV Skin notation?	OSHA PEL TWA ppm (mg/M ³)	OSHA PEL STEL/Ceiling (C) ppm (mg/M ³)	OSHA PEL Skin notation?
Oil Mist, Mineral	(5)	(10)	No	(5)	NE	No

Specific Personal Protective Equipment:

- Respirator:** At elevated temperatures, vapor or mist concentrations may exceed applicable workplace exposure levels. Use a NIOSH or MSHA approved organic vapor/mist chemical cartridge respirator when elevated airborne concentrations are anticipated.
- Eyes:** Safety glasses or chemical splash goggles if splashing is anticipated.
- Dermal:** Use oil impervious gloves constructed of nitrile rubber if frequent or prolonged contact is expected.
- Other Clothing or Equipment:** Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder contaminated work clothes before reuse.

8.0 TRANSPORTATION AND SPECIAL PRECAUTIONS

Storage: Store below 150° F. Do not apply high heat or flame to container. Keep separate from strong oxidizing agents.

Caution: Empty containers may contain product residue which could include combustible vapors.

Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

DOT Information:

Proper Shipping Name	Combustible Liquid, n.o.s.
Hazard Class	Combustible Liquid
Hazard Identification No.:	NA 1993
Packaging Group	III
Placard	Combustible (Bulk > 119 gal.)
Compatibility Category	Group 33
CHRIS Code	OMT

9.0 ENVIRONMENTAL DATA

Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 313 - Toxic Chemicals

This product is not known to contain any components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA.

Section 311/312 - Hazard Categories

Immediate (Acute) Health Hazard	No	Sudden Release of Pressure Hazard	No
Delayed (Chronic) Health Hazard	No	Reactive Hazard	No
Fire Hazard	Yes		

Section 302 - Extremely Hazardous Substances

This product is not known to contain any components that are listed as Extremely Hazardous Substances in concentrations greater than one percent in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

Clean Water Act (CWA)

Under the CWA, discharges of crude oil and petroleum products to surface water without proper federal and state permits must be reported immediately to the National Response Center at (800) 424-8802.

9.0 ENVIRONMENTAL DATA (continued)

Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA) Section 102 Hazardous Substances

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

California Proposition 65 (The Safe Drinking Water and Toxics Enforcement Act)

This material contains components that are known to the State of California to be:

Carcinogenic: No

Teratogenic: No

Federal Regulations:

Reported in TSCA Inventory as:	Product	Components
2-Cycle Special M		X

10.0 LABELING

CAUTION:

Combustible Liquid.
Contains Petroleum Distillates.
Keep away from heat or flame.
Harmful or Fatal if Swallowed.
If swallowed, Do Not Induce Vomiting.
Seek Medical Attention, Immediately
Keep Out of Reach of Children.

11.0 REFINED PETROLEUM OILS

The product listed on page one of this MSDS contains one or more of the following base oils.

<u>Chemical / Common Name</u>	<u>CAS No.</u>
Solvent Refined Heavy Paraffinic Distillate	64741-88-4
Solvent Refined Light Paraffinic Distillate	64741-89-5
Solvent Refined Residuum	64742-01-4

ALL STATEMENTS, INFORMATION, AND DATA PROVIDED IN THIS MATERIAL SAFETY DATA SHEET ARE BELIEVED TO BE ACCURATE AND RELIABLE, BUT ARE PRESENTED WITHOUT GUARANTEE, REPRESENTATION, WARRANTY, OR RESPONSIBILITY OF ANY KIND, EXPRESSED OR IMPLIED. ANY AND ALL REPRESENTATIONS AND/OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE. NOTHING CONTAINED HERE IN IS INTENDED AS PERMISSION, INDUCEMENT OR RECOMMENDATION TO VIOLATE ANY LAWS OR TO PRACTICE ANY INVENTION COVERED BY EXISTING PATENTS, COPYRIGHTS OR INVENTIONS.

NA-Not Applicable

ND-No Data

NE-Not Established

2-Cycle Special M (64-010, March 1, 1996 CIN: 2059)

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